

CHAPTER 4

POINT AND NONPOINT SOURCE CHARACTERIZATION OF THE SOUTH FORK CUMBERLAND RIVER WATERSHED

4.1 Background.

4.2. Characterization of HUC-10 Subwatersheds

4.2.A. 0513010401 (New River)

4.2.B. 0513010402 (Clear Fork)

4.2.C. 0513010403 (White Oak Creek)

4.2.D. 0513010404 (Big South Fork Cumberland River)

4.2.E. 0513010405 (North White Oak Creek)

4.2.F. 0513010407 (Little South Fork Cumberland River)

4.1. BACKGROUND. This chapter is organized by HUC-12 subwatershed, and the description of each subwatershed is divided into four parts:

- i. General description of the subwatershed
- ii. Description of point source contributions
- ii.a. Description of facilities discharging to water bodies listed on the 2004 303(d) list
- iii. Description of nonpoint source contributions

The Tennessee portion of the South Fork Cumberland River Watershed (HUC 05130104) has been delineated into six HUC 10 (10-digit) subwatersheds, each of which is composed of one or more HUC-12 subwatersheds.

Information for this chapter was obtained from databases maintained by the Division of Water Pollution Control or provided in the WCS (Watershed Characterization System) data set. The WCS used was version 2.0 (developed by Tetra Tech, Inc for EPA Region 4) released in 2003.

WCS integrates with ArcView® v3.x and Spatial Analyst® v1.1 to analyze user-delineated (sub)watersheds based on hydrologically connected water bodies. Reports are generated by integrating WCS with Microsoft® Word. Land Use/Land Cover information from 1992 MRLC (Multi-Resolution Land Cover) data are calculated based on the proportion of county-based land use/land cover in user-delineated (sub)watersheds. Nonpoint source data in WCS are based on agricultural census data collected 1992–1998; nonpoint source data were reviewed by Tennessee NRCS staff.

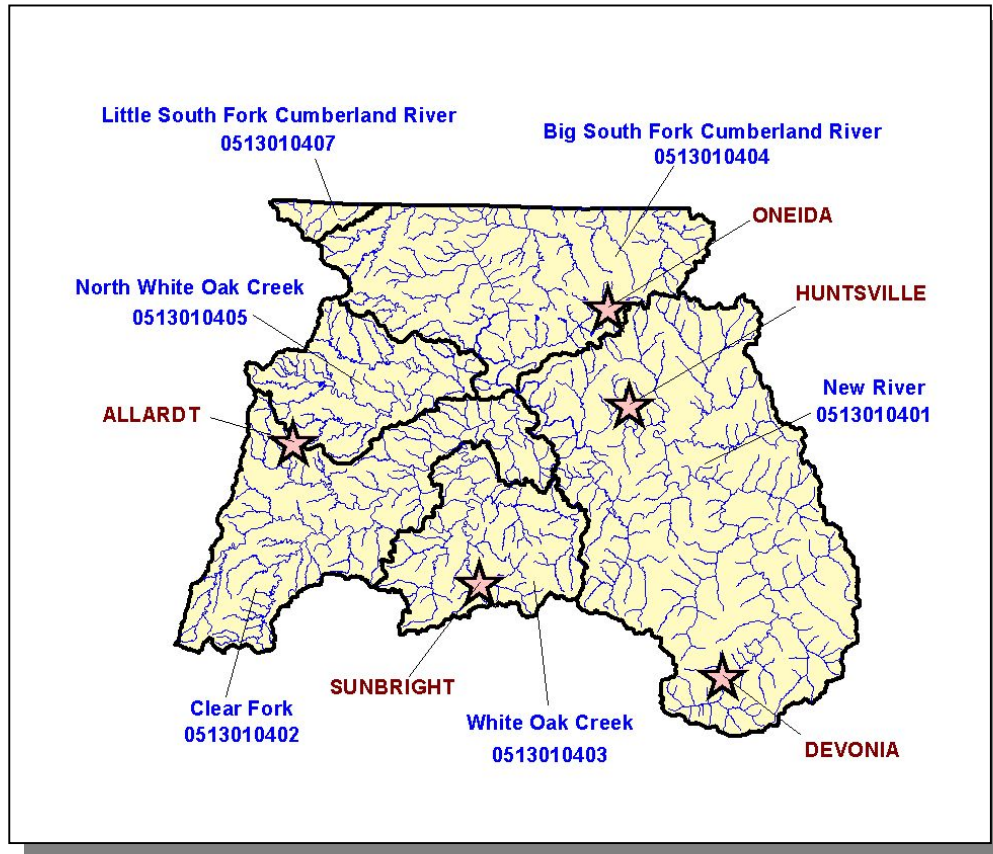


Figure 4-1. The Tennessee Portion of the South Fork of the Cumberland River Watershed is Composed of Six USGS-Delineated Subwatersheds (10-Digit Subwatersheds). Locations of Allardt, Devonia, Huntsville, Oneida, and Sunbright are shown for reference.

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4.2. CHARACTERIZATION OF HUC-10 SUBWATERSHEDS. The Watershed Characterization System (WCS) software and data sets provided by EPA Region IV were used to characterize each subwatershed in the Tennessee portion of the South Fork Cumberland River Watershed.

HUC-10	HUC-12
0513010401	051301040101 (New River)
	051301040102 (New River)
	051301040103 (Smokey Creek)
	051301040104 (New River)
	051301040105 (Buffalo Creek)
	051301040106 (New River)
	051301040107 (Brimstone Creek)
	051301040108 (New River)
0513010402	051301040201 (North Prong Clear Fork)
	051301040202 (South Prong Clear Fork)
	051301040203 (Upper Clear Fork)
	051301040204 Crooked Creek)
	051301040205 (Lower Clear Fork)
0513010403	051301040301 (Upper Whiteoak Creek)
	051301040302 (Camp Creek)
	051301040303 (Black Wolf Creek)
	051301040304 (Lower Whiteoak Creek)
0513010404	051301040401 (Big South Fork)
	051301040402 (Pine Creek)
	051301040403 (Station Camp Creek)
	051301040404 (Big South Fork)
	051301040405 (Bear Creek)
	051301040407 (Roaring Paunch Creek)
	051301040408 (Rock Creek)
0513010405	051301040501 (North Whiteoak Creek)
	051301040502 (Laurel Fork)
0513010407	051301040701 (Little South Fork)

Table 4-1. HUC-12 Drainage Areas are Nested Within HUC-10 Drainages. NRCS worked with USGS to delineate the HUC-10 and HUC-12 drainage boundaries.